

CLAIMS

What is claimed is:

1. A method for treating pain, which comprises administering to an
5 individual in need thereof a therapeutically effective amount of a first component that
is an $\alpha_2\delta$ subunit calcium channel modulator, in combination with a second
component that is a smooth muscle modulator.
2. The method of claim 1, wherein said first component and said second
10 component are contained within a single pharmaceutical formulation.
3. The method of claim 1, wherein said first component and said second
component are contained within separate pharmaceutical formulations.
4. The method of claim 3, wherein said first component and said second
15 component are administered concurrently.
5. The method of claim 3, wherein said first component and said second
component are administered sequentially.
20
6. The method of claim 1, wherein the $\alpha_2\delta$ subunit calcium channel
modulator is a GABA analog.
7. The method of claim 6, wherein the GABA analog is Gabapentin or an
25 acid, salt, enantiomer, analog, ester, amide, prodrug, active metabolite, or derivative
thereof.
8. The method of claim 6, wherein the GABA analog is Pregabalin or an
acid, salt, enantiomer, analog, ester, amide, prodrug, active metabolite, or derivative
30 thereof.
9. The method of claim 1, wherein said smooth muscle modulator is
selected from the group consisting of: antimuscarinics, β_3 adrenergic agonists,

spasmolytics, neurokinin receptor antagonists, bradykinin receptor antagonists, and nitric oxide donors.

10. The method of claim 9, wherein said smooth muscle modulator is an
5 antimuscarinic.

11. The method of claim 10, wherein the antimuscarinic is Oxybutynin or an acid, salt, enantiomer, analog, ester, amide, prodrug, active metabolite, or derivative thereof.

12. The method of claim 1, wherein said $\alpha_2\delta$ subunit calcium channel modulator is Gabapentin or acids, salts, enantiomers, analogs, esters, amides, prodrugs, active metabolites, and derivatives thereof, and wherein said smooth muscle modulator is Oxybutynin or acids, salts, enantiomers, analogs, esters, amides,
15 prodrugs, active metabolites, and derivatives thereof.

13. The method of claim 1, wherein said first component and said second component are administered on an as-needed basis.

14. The method of claim 1, wherein said first component and said second component are administered prior to commencement of an activity wherein suppression of pain would be desirable.

15. The method of claim 14, wherein said first component and said second component are administered from about 0 to about 3 hours prior to commencement of an activity wherein suppression of pain would be desirable.

16. The method of claim 1, wherein said first component and said second component are administered orally, transmucosally, sublingually, buccally, intranasally, transurethrally, rectally, by inhalation, topically, transdermally,
30 parenterally, intrathecally, vaginally, or perivaginally.

17. The method of claim 1, wherein said first component and said second component are administered to treat neuropathic pain, nociceptive pain, or chronic pelvic pain.

5 18. The method of claim 1, wherein said first component and said second component are administered to treat the pain associated with a disorder selected from the group consisting of: interstitial cystitis, prostatitis, prostatic dyspareunia, vulvar vestibulitis, vulvodynia, functional abdominal pain disorder, functional dyspepsia, and irritable bowel disorder.

10 19. The method of claim 1, wherein at least one detrimental side effect associated with single administration of said first component or single administration of said second component is lessened by concurrent administration of said first component and said second component.

15 20. The method of claim 19, wherein said first component and said second component are administered to treat neuropathic pain, nociceptive pain, or chronic pelvic pain.

20 21. The method of claim 19, wherein said first component and said second component are administered to treat the pain associated with a disorder selected from the group consisting of: interstitial cystitis, prostatitis, prostatic dyspareunia, vulvar vestibulitis, vulvodynia, functional abdominal pain disorder, functional dyspepsia, and irritable bowel disorder.

25 22. A method for treating pain comprising administering to an individual in need thereof a therapeutically effective amount of at least one component selected from an $\alpha_2\delta$ subunit calcium channel modulator and a smooth muscle modulator.

30 23. A pharmaceutical composition comprising a first component that is an $\alpha_2\delta$ subunit calcium channel modulator, in combination with a second component that is a smooth muscle modulator, wherein said first component and said second component are in amounts sufficient to treat pain.

24. A pharmaceutical composition comprising a first component that is Gabapentin or pharmaceutically acceptable acids, salts, esters, amides, prodrugs, or active metabolites thereof, in combination with a second component that is
5 Oxybutynin or pharmaceutically acceptable acids, salts, esters, amides, prodrugs, or active metabolites thereof, wherein said first component and said second component are in amounts sufficient to treat pain.

25. The pharmaceutical composition of claim 24 wherein said first
10 component is present in an amount from about 50 mg to about 2400 mg, and wherein said second component is present in an amount equal to or less than about 5 mg.

26. The pharmaceutical composition of claim 25 wherein said first
15 component is in an amount of about 200 mg.

27. The pharmaceutical composition of claim 25 wherein said second
component is in an amount of about 2.5 mg.

28. The pharmaceutical composition of claim 25 wherein said second
20 component is in an amount of about 1.25 mg.

29. A pharmaceutical composition comprising a first component that is Pregabalin or pharmaceutically acceptable acids, salts, esters, amides, prodrugs, or active metabolites thereof, in combination with a second component that is
25 Oxybutynin or pharmaceutically acceptable acids, salts, esters, amides, prodrugs, or active metabolites thereof, wherein said first component and said second component are in amounts sufficient to treat pain.

30. A pharmaceutical composition for the treatment of pain, comprising a
30 first component that is Gabapentin or pharmaceutically acceptable acids, salts, esters, amides, prodrugs, or active metabolites thereof, in combination with a second component that is Oxybutynin or pharmaceutically acceptable acids, salts, esters, amides, prodrugs, or active metabolites thereof, wherein said first component and said

second component are present in a ratio from about 1:1 to about 800:1 or from about 1:1 to about 1:800, respectively, based on a fraction of their respective ED₅₀ values.

31. A combination for the treatment of pain, comprising a first component
5 that is Gabapentin or pharmaceutically acceptable acids, salts, esters, amides, prodrugs, or active metabolites thereof, in combination with a second component that is Oxybutynin or pharmaceutically acceptable acids, salts, esters, amides, prodrugs, or active metabolites thereof, wherein said first component and said second component are in a weight/weight ratio of from 1:1 to about 800:1 or from about 1:1 to about
10 1:800, respectively.

32. A pharmaceutical composition for the treatment of pain comprising Oxybutynin, wherein said Oxybutynin is in an amount less than about 5.0 mg.

15 33. A packaged kit for a patient to use in the treatment of pain, comprising: at least one component selected from an $\alpha_2\delta$ subunit calcium channel modulator and a smooth muscle modulator; a container housing said component or components during storage and prior to administration; and instructions for carrying out drug administration of an $\alpha_2\delta$ subunit calcium channel modulator with a smooth muscle
20 modulator in a manner effective to treat pain.

34. The packaged kit of claim 33 wherein said first component and said second component are contained in the same pharmaceutical formulation.

25 35. The packaged kit of claim 34 wherein said first component is Gabapentin or pharmaceutically acceptable acids, salts, esters, amides, prodrugs, or active metabolites thereof, and wherein said second component is Oxybutynin or pharmaceutically acceptable acids, salts, esters, amides, prodrugs, or active metabolites thereof.

30

36. The packaged kit of claim 33 wherein said first component and said second component are contained in separate pharmaceutical formulations.

37. The packaged kit of claim 36 wherein said instructions include directions for carrying out drug administration of said first component and said second component sequentially or concurrently.

- 5 38. The packaged kit of claim 37 wherein said first component is Gabapentin or pharmaceutically acceptable acids, salts, esters, amides, prodrugs, or active metabolites thereof, and wherein said second component is Oxybutynin or pharmaceutically acceptable acids, salts, esters, amides, prodrugs, or active metabolites thereof.